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1 [Modeling document-mediated interaction](#)



William Hart-Davidson

October 2002 SIGDOC '02: Proceedings of the 20th annual international conference on Computer documentation

Publisher: ACM

Full text available: [pdf\(313.55 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 32, Citation Count: 3

Current approaches to modeling texts create text structures based on semantic representations of authorial intention or a pre-determined information structure. This paper considers an alternative to these two approaches - modeling document-mediated interaction ...

Key words: activity theory, document modeling, human-computer interaction, technical communication


2 Display time as implicit feedback: understanding task effects



Diane Kelly, Nicholas J. Belkin

July 2004 SIGIR '04: Proceedings of the 27th annual international ACM SIGIR conference on Research and development in information retrieval

Publisher: ACM

Full text available:  [pdf\(374.55 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 145, Citation Count: 13

Recent research has had some success using the length of time a user displays a document in their web browser as implicit feedback for document preference. However, most studies have been confined to specific search domains, such as news, and have not ...

Keywords: display time, implicit feedback, information-seeking context, personalization, tailored retrieval, task, user modeling, user profiling


3 Peephole displays: pen interaction on spatially aware handheld computers



Ka-Ping Yee

April 2003 CHI '03: Proceedings of the SIGCHI conference on Human factors in computing systems

Publisher: ACM

Full text available:  [pdf\(6.59 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 142, Citation Count: 28

The small size of handheld computers provides the convenience of mobility at the expense of reduced screen space for display and interaction. Prior research has identified the value of spatially aware displays, in which a position-tracked display provides ...

Keywords: 3-D drag-and-drop, mobile computing, personal information spaces, spatially aware displays, two-handed interaction


4 The visual knowledge builder: a second generation spatial hypertext



Frank M. Shipman, III, Haowei Hsieh, Preetam Maloor, J. Michael Moore

September 2001 HYPERTEXT '01: Proceedings of the 12th ACM conference on Hypertext and Hypermedia

Publisher: ACM

Full text available:  [pdf\(415.74 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 54, Citation Count: 19

The development of spatial hypertext systems was driven by the need to lower users' effort of expression. Users express categories and interrelationships through the visual similarity and co-location of information objects. The ease of changing a visual ...

Keyw ords: distributed hypertext, history, hypertext applications, link types, navigation, spatial hypertext

5 Perceptually-supported image editing of text and graphics



Eric Saund, David Fleet, Daniel Larner, James Mahoney
November 2003 UI ST '03: Proceedings of the 16th annual ACM symposium on User interface software and technology
Publisher: ACM

Additional Information: [full](#)

[citation](#),
[abstract](#),
[references](#),
[cited by](#),
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Full text available: [pdf\(1.42 MB\)](#) [wmv\(3:16 MIN\)](#) [mov\(3:16 MIN\)](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 96, Citation Count: 7

This paper presents a novel image editing program emphasizing easy selection and manipulation of material found in informal, casual documents such as sketches, handwritten notes, whiteboard images, screen snapshots, and scanned documents. The program, ...

Keyw ords: WYPIWYG, bitmap image, foreground/background, lattice grouping, perceptual document editing, rough document, scanscribe

6 PicASHOW: pictorial authority search by hyperlinks on the web



January 2002 ACM Transactions on Information Systems (TOIS), Volume 20 Issue 1
Publisher: ACM


Full text available: [pdf\(436.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 52, Citation Count: 0

We describe PicASHOW, a fully automated WWW image retrieval system that is based on several link-structure analyzing algorithms. Our basic premise is that a page p displays (or links to) an image when the author of p considers the image ...


Keyw ords: Image retrieval, hubs and authorities, image hubs, link structure analysis

7 Path sharing and predicate evaluation for high-performance XML filtering

 Yanlei Diao, Mehmet Altinel, Michael J. Franklin, Hao Zhang, Peter Fischer

December 2003 ACM Transactions on Database Systems (TODS), Volume 28 Issue 4

Publisher: ACM

Full text available:  pdf(543.40 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 182, Citation Count: 26

XML filtering systems aim to provide fast, on-the-fly matching of XML-encoded data to large numbers of query specifications containing constraints on both structure and content. It is now well accepted that approaches using event-based parsing and Finite ...


Keywords: Nondeterministic Finite Automaton, XML filtering, content-based matching, nested path expressions., path sharing, predicate evaluation, structure matching

8 MPEG-4: an object-based multimedia coding standard supporting mobile applications

Atul Puri, Alexandros Eleftheriadis

June 1998 Mobile Networks and Applications, Volume 3 Issue 1

Publisher: Kluwer Academic Publishers

Full text available:  pdf(747.80 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 212, Citation Count: 7


The ISO MPEG committee, after successful completion of the MPEG-1 and the MPEG-2 standards is currently working on MPEG-4, the third MPEG standard. Originally, MPEG-4 was conceived to be a standard for coding of limited complexity audio-visual scenes ...

9 Unsupervised learning of soft patterns for generating definitions from online news

 Hang Cui, Min-Yen Kan, Tat-Seng Chua

May 2004 WWW '04: Proceedings of the 13th international conference on World Wide Web

Publisher: ACM

Full text available:  pdf(165.57 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 90, Citation Count: 14

Breaking news often contains timely definitions and descriptions of current terms, organizations and personalities. We utilize such web sources to construct definitions for such terms. Previous work has identified definitions using hand-crafted rules ...

Keyw ords: definition generation, definitional question answering, pseudo-relevance feedback, soft patterns, unsupervised learning

10 Conversation trees and threaded chats



Marc Smith, J. J. Cadiz, Byron Burkhalter

December 2000 CSCW '00: Proceedings of the 2000 ACM conference on Computer supported cooperative work

Publisher: ACM

Full text available: [pdf\(163.07 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 11, Downloads (12 Months): 128, Citation Count: 24

Chat programs and instant messaging services are increasingly popular among Internet users. However, basic issues with the interfaces and data structures of most forms of chat limit their utility for use in formal interactions (like group meetings) and ...

Keyw ords: chat programs, computer mediated communication, conversation, human computer human interaction, persistent conversation, synchronous communication, turn-taking

11 Visualizing geospatial data



Theresa Marie Rhyne, Alan MacEachren, Theresa-Marie Rhyne

August 2004 SIGGRAPH '04: ACM SIGGRAPH 2004 Course Notes

Publisher: ACM

Full text available: [pdf\(14.01 MB\)](#) Additional Information: [full citation](#), [abstract](#)

Bibliometrics: Downloads (6 Weeks): 112, Downloads (12 Months): 750, Citation Count: 0

This course reviews concepts and highlights new directions in GeoVisualization. We review four levels of integrating geospatial data and geographic information systems (GIS) with scientific and information visualization (VIS) methods. These include:• ...

12 ScentTrails: Integrating browsing and searching on the Web



Christopher Olston, Ed H. Chi

September 2003 ACM Transactions on Computer-Human Interaction (TOCHI),
Volume 10 Issue 3

Publisher: ACM

Full text available: pdf(654.98 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 200, Citation Count: 15

The two predominant paradigms for finding information on the Web are browsing and keyword searching. While they exhibit complementary advantages, neither paradigm alone is adequate for complex information goals that lend themselves partially to browsing ...

Keywords: ScentTrails, World Wide Web, browsing, information scent, searching

13 Task analysis for groupware usability evaluation: Modeling shared-workspace tasks with the mechanics of collaboration



David Pinelle, Carl Gutwin, Saul Greenberg

December 2003 ACM Transactions on Computer-Human Interaction (TOCHI),
Volume 10 Issue 4

Publisher: ACM

Full text available: pdf(224.02 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 42, Downloads (12 Months): 381, Citation Count: 18

Researchers in Computer Supported Cooperative Work have recently developed discount evaluation methods for shared-workspace groupware. Most discount methods rely on some understanding of the context in which the groupware systems will be used, which ...

Keywords: Groupware evaluation, Groupware usability, Mechanics of collaboration, Task analysis

14 Summarizing scientific articles: experiments with relevance and rhetorical status

Simone Teufel, Marc Moens

December 2002 Computational Linguistics, Volume 28 Issue 4

Publisher: MIT Press

Full text available: pdf(424.69 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 147, Citation Count: 18



In this article we propose a strategy for the summarization of scientific articles that concentrates on the rhetorical status of statements in an article: Material for summaries is selected in such a way that summaries can highlight the new contribution ...

15 Analysis and testing of Web applications

Filippo Ricca, Paolo Tonella

July 2001 I CSE '01: Proceedings of the 23rd International Conference on Software Engineering

Publisher: IEEE Computer Society

Full text available:  pdf(167.58 KB)  [Publisher Site](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 35, Downloads (12 Months): 420, Citation Count: 29

The economic relevance of Web applications increases the importance of controlling and improving their quality. Moreover, the new available technologies for their development allow the insertion of sophisticated functions, but often leave the developers ...

Keywords: UML modeling, code analysis, reverse engineering, testing, web applications




16 Fluid interaction techniques for the control and annotation of digital video



Gonzalo Ramos, Ravin Balakrishnan

November 2003 UIST '03: Proceedings of the 16th annual ACM symposium on User interface software and technology

Publisher: ACM

Full text available:  pdf(3.03 MB)  wmv(5:20 MIN)  mov(5:20 MIN)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 43, Downloads (12 Months): 212, Citation Count: 15

We explore a variety of interaction and visualization techniques for fluid navigation, segmentation, linking, and annotation of digital videos. These techniques are developed within a concept prototype called *LEAN* that is designed for use with ...

Keywords: annotations, fluid interaction techniques, pen-based interfaces, video


17 Modular authorization and administration



Horst F. Wedde, Mario Lischka

August 2004 ACM Transactions on Information and System Security (TISSEC),
Volume 7 Issue 3

Publisher: ACM

Full text available:  [pdf\(986.64 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 62, Citation Count: 1

In large organizations the administration of access privileges (such as the assignment of access rights to a user in a particular role) is handled cooperatively through distributed administrators in various different capacities. A quorum may be necessary, ...

Keywords: Modularity, Petri-Nets, composability, work-flow


18 Hearsay: enabling audio browsing on hypertext content



I. V. Ramakrishnan, Amanda Stent, Guizhen Yang

May 2004 WWW '04: Proceedings of the 13th international conference on World Wide Web

Publisher: ACM

Full text available:  [pdf\(974.86 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 78, Citation Count: 14

In this paper we present HearSay, a system for browsing hypertext Web documents via audio. The HearSay system is based on our novel approach to automatically creating audio browsable content from hypertext Web documents. It combines two key technologies: ...


Keywords: HTML, VoiceXML, World Wide Web, audio browser, semantic analysis, structural analysis, user interface

19 Scalable feature selection, classification and signature generation for organizing large text databases into hierarchical topic taxonomies

Soumen Chakrabarti, Byron Dom, Rakesh Agrawal, Prabhakar Raghavan

August 1998 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 7 Issue 3

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(281.37 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 70, Citation Count: 25

We explore how to organize large text databases hierarchically by topic to aid better searching, browsing and filtering. Many corpora, such as internet directories, digital libraries, and patent databases are manually organized into topic hierarchies, ...


20 Webformulate: a web-based visual continual query system



Jennifer Leopold, Meg Heimovics, Tyler Palmer

May WWW '02: Proceedings of the 11th international conference on World Wide Web 2002

Publisher: ACM

Full text available:  [pdf\(423.60 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 44, Citation Count: 0

Today there is a plethora of data accessible via the Internet. The Web has greatly simplified the process of searching for, accessing, and sharing information. However, a considerable amount of Internet-distributed data still goes unnoticed and unutilized, ...

Keyw ords: continual query, visual programming language, visual query system

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